



**REPORT
of
SUB-SURFACE
DIRECTIONAL
SURVEY**

CONOCO INC.
COMPANY

MCA UNIT WELL NO. 365

WELL NAME

29-11-32

LEA COUNTY, NEW MEXICO

LOCATION

JOB NUMBER
WT1284-A0144

TYPE OF SURVEY
SEEKER I GYRO SURVEY

DATE
12/25/84

SURVEY BY
STEVE COVINGTON

OFFICE
WEST TEXAS

CONOCO INC.

MCA UNIT WELL NO. 365

LEA COUNTY, NEW MEXICO

B02-162

DATE: 24-DEC-84

LATITUDE: 32.817

SLEW/SETTLE: 10/7

TOOL: EW0216

DISTRICT: WEST TEXAS

SURVEYOR: STEVE COVINGTON AND GARY DESPAIN

CO. REP: CAREY DARR

HEAT SHIELD: 2" HALF FLASK

EASTMAN WHIPSTOCK, INC.

SEEKER I GYROSCOPIC SURVEY

WT1284-A0144

(0'-1009')

VERTICAL SECTION CALCULATED IN PLANE OF PROPOSAL
DIRECTION: N 0 DEG. 0 MIN. E

RECORD OF SURVEY

RADIUS OF CURVATURE METHOD

MEASURED DEPTH FEET	DRIFT ANGLE D M	DRIFT DIRECTION D	COURSE LENGTH FEET	TRUE VERTICAL DEPTH FEET	VERTICAL SECTION FEET	R E C T A N G U L A R C O O R D I N A T E S FEET	DOGLEG SEVERITY DG/100FT
0.	0 0	0	0.	0.00	0.00	0.00	0.00
25.	0 24	S 62 W	25.	25.00	-0.04	0.04 S	1.60
50.	0 19	S 50 W	25.	50.00	-0.13	0.13 S	0.43
75.	0 18	S 38 W	25.	75.00	-0.22	0.22 S	0.28
100.	0 22	S 36 W	25.	100.00	-0.34	0.34 S	0.32
125.	0 10	S 31 W	25.	125.00	-0.44	0.44 S	0.80
150.	0 12	S 36 W	25.	150.00	-0.51	0.51 S	0.13
175.	0 13	S 36 W	25.	175.00	-0.55	0.55 S	0.74
200.	0 13	S 79 W	25.	200.00	-0.56	0.56 S	0.11
225.	0 24	N 89 W	25.	225.00	-0.58	0.58 S	0.76
250.	0 28	N 88 W	25.	250.00	-0.57	0.57 S	0.32
275.	0 45	N 88 W	25.	275.00	-0.56	0.56 S	1.08
300.	0 53	N 77 W	25.	299.99	-0.52	0.52 S	0.87
325.	0 58	N 83 W	25.	324.99	-0.45	0.45 S	0.57
350.	1 13	N 81 W	25.	349.98	-0.39	0.39 S	0.98
375.	1 14	N 85 W	25.	374.98	-0.33	0.33 S	0.38
400.	1 21	N 80 W	25.	399.97	-0.27	0.27 S	0.65
425.	1 42	N 81 W	25.	424.96	-0.16	0.16 S	1.40
450.	1 55	N 80 W	25.	449.95	-0.04	0.04 S	0.85
475.	2 6	N 79 W	25.	474.94	0.11	0.11 N	0.77
500.	2 19	N 79 W	25.	499.92	0.29	0.29 N	0.84
525.	2 28	N 82 W	25.	524.89	0.45	0.45 N	0.85
550.	2 43	N 79 W	25.	549.87	0.62	0.62 N	1.42
575.	3 5	N 80 W	25.	574.83	0.85	0.85 N	1.12
600.	3 31	N 80 W	25.	599.79	1.09	1.09 N	1.76
625.	3 50	N 80 W	25.	624.74	1.36	1.36 N	1.26
650.	4 9	N 82 W	25.	649.68	1.61	1.61 N	1.29
675.	4 18	N 83 W	25.	674.61	1.85	1.85 N	0.67
700.	4 27	N 83 W	25.	699.54	2.07	2.07 N	0.62
725.	4 28	N 82 W	25.	724.46	2.31	2.31 N	0.40

ONOCO INC.
CA UNIT WELL NO. 365
BA COUNTY, NEW MEXICO

BD2-162

COMPUTATION PAGE NO. 2
TIME DATE
92:40:07 21-DEC-84

MEASURED DEPTH FEET	DRIFT ANGLE D M	DRIFT DIRECTION D	COURSE LENGTH FEET	TRUE VERTICAL DEPTH FEET	VERTICAL SECTION FEET	R E C T A N G U L A R C O O R D I N A T E S FEET	DOGLEG SEVERITY DG/100FT
750.	4 36	N 82 W	25.	749.38	2.57	2.57 N 22.66 W	0.56
775.	4 42	N 83 W	25.	774.30	2.83	2.83 N 24.67 W	0.50
800.	4 49	N 82 W	25.	799.22	3.07	3.07 N 26.73 W	0.46
825.	5 12	N 82 W	25.	824.12	3.35	3.35 N 28.90 W	1.53
850.	5 42	N 83 W	25.	849.01	3.65	3.65 N 31.25 W	2.01
875.	5 57	N 83 W	25.	873.88	3.95	3.95 N 33.77 W	1.02
900.	6 3	N 81 W	25.	898.74	4.30	4.30 N 36.37 W	1.08
925.	6 12	N 81 W	25.	923.60	4.70	4.70 N 39.01 W	0.62
950.	6 13	N 83 W	25.	948.45	5.05	5.05 N 41.69 W	0.81
975.	6 18	N 84 W	25.	973.30	5.35	5.35 N 44.40 W	0.50
1000.	6 28	N 82 W	25.	998.15	5.67	5.67 N 47.17 W	0.94
1009.	6 32	N 83 W	9.	1007.09	5.79	5.79 N 48.18 W	0.81

FINAL CLOSURE - DIRECTION: N 83 DEGS 8 MINS 46 SECS W
DISTANCE: 48.53 FEET

CONOCO INC.
MCA UNIT WELL NO. 365
LEA COUNTY, NEW MEXICO

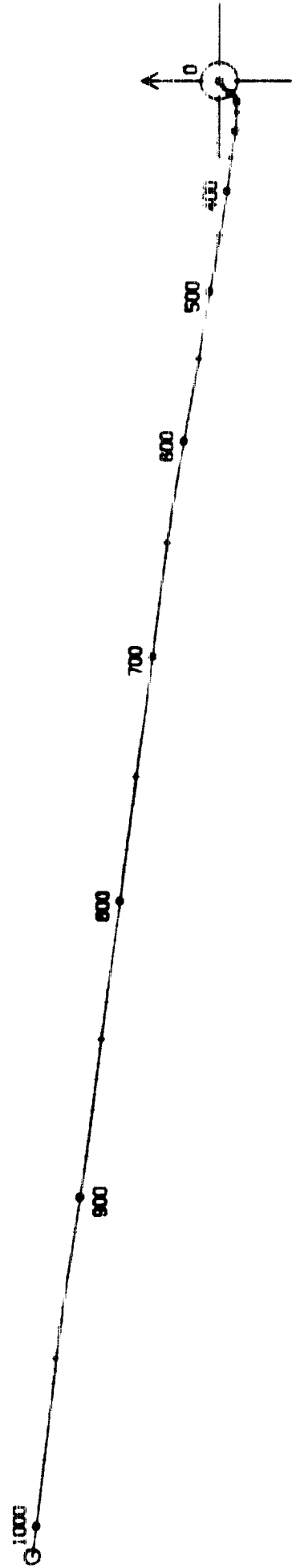
802-162

EASTMAN WHIPSTOCK, INC.

HORIZONTAL PROJECTION

SCALE 1 IN. = 5 FEET
DEPTH INDICATOR: MD

FINAL STATION:
DEPTH 1009 MD- 1007.08 TVD
NORTH 5.79 WEST 48.18
CLOSURE 48.52 N 83 8 46 W





P.O. Box 6341/Midland, Texas 79711-0341/(915) 563-0511

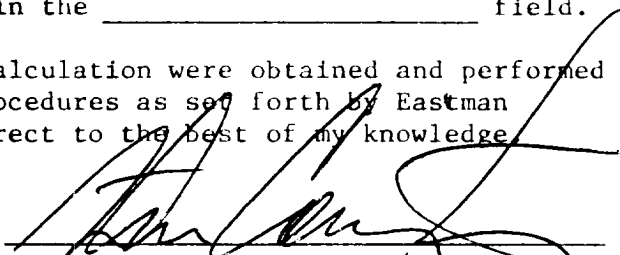
SURVEY CERTIFICATION SHEET

STATE OF TEXAS
COUNTY OF MIDLAND

I, STEVE COVINGTON, in the employ of Eastman Whipstock, Inc., did on the days of DECEMBER 24, 1984 thru DECEMBER 25, 1984 conduct or supervise the taking of a SEEKER I GYRO survey by the method of magnetic orientation from a depth of 0 feet to 1009 feet, with recordings of inclination and direction being obtained at approximate intervals of 25 feet.

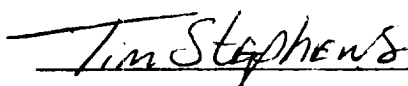
This survey was conducted at the request of CONOCO INC. for their MCA UNIT #365, LEA County, State of NEW MEXICO, in the _____ field.

This data for this survey and the calculation were obtained and performed by me according to standards and procedures as set forth by Eastman Whipstock, Inc. and is true and correct to the best of my knowledge.



Directional Supervisor/Surveyor

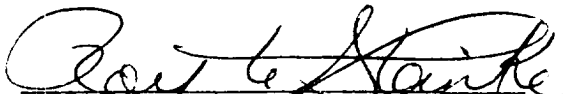
The data for this survey has been examined by me and confirms to principles and procedures set forth by Eastman Whipstock, Inc.



Tim Stephens

Before me, the undersigned authority, on this day personally appeared STEVE COVINGTON, known to me to be the person whose name is subscribed to this instrument, who after being by me duly sworn on oath, states that he has knowledge of all the facts stated above and that this information is a true statement of facts therein recited.

Subscribed and sworn to before me on this 29TH day of April, 1985.



Notary Public in and for the
County of Midland, Texas



ROY L. STEINKE
Notary Public, State of Texas
My Commission Expires July 9, 1985